

EVENT LIGHTING

SPOT MOVING HEAD

M1B150W

USER MANUAL



For safety, please read this user manual carefully before initial use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

www.event-lighting.com.au

V1.1

Safety Instructions

WARNING

- Do not open this device, there is no user-serviceable parts inside. Risk of electric shock.
- Do not look at the light source when the device is on.
- **CAUTION:** This unit's housing may be hot during and after operation.
- Install this device in a location with adequate ventilation, at least 20 inch (50 cm) from adjacent surfaces.
- Do not leave any flammable material within 50 cm of this unit while operating or connected to power.
- Use a safety chain when mounting this device overhead.
- Do not operate this device outdoors or in any location where dust, excessive heat, water, or humidity may affect it.
- Do not operate this device if the housing, lenses, or cables appear damaged.
- Do not connect this device to a dimmer or rheostat.
- **ONLY** connect this device to a grounded and protected circuit.
- **ONLY** use the hanging bracket to carry this device.
- In case of a serious operating problem, stop using immediately.
- The maximum ambient temperature is 104° F (40° C). Do not operate this device at higher temperatures.

Power Input & Power Linking

This device has an auto-switching power supply work with input voltage range of 100~240 VAC, 50/60 Hz.

Link up to the maximum 8A. DO NOT exceed this.

Fuse Replacement

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

Before replacing the fuse, unplug mains lead.

Procedure:

Step 1: Unscrew the fuse holder on the rear panel with a fitting screwdriver from the housing (anticlockwise).

Step 2: Remove the old fuse from the fuse holder.

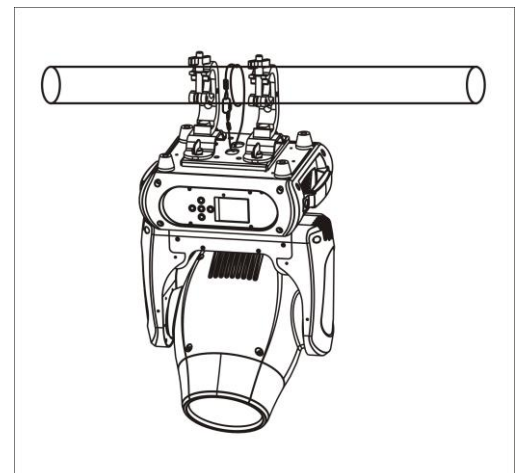
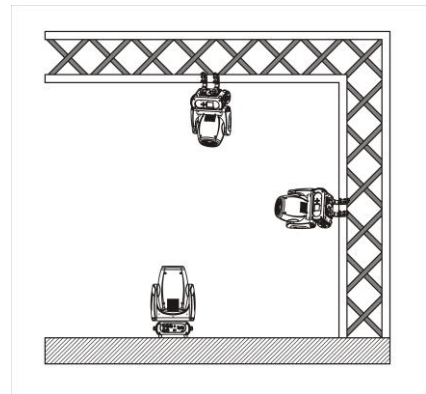
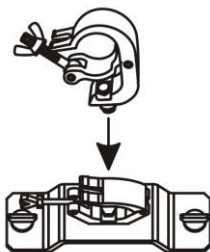
Step 3: Install the new fuse in the fuse holder.

Step 4: Replace the fuse holder in the housing and fix it.

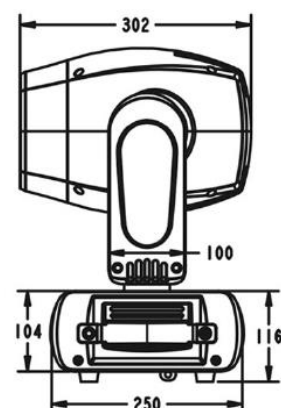
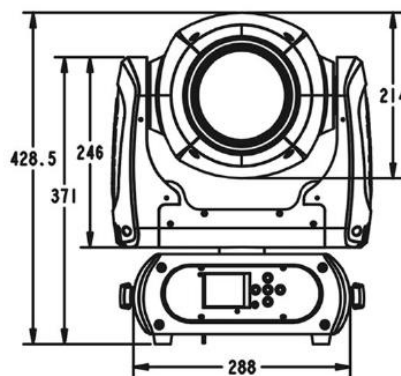
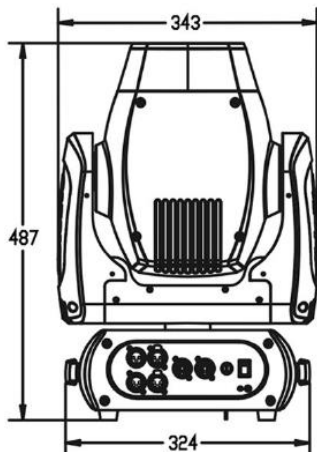
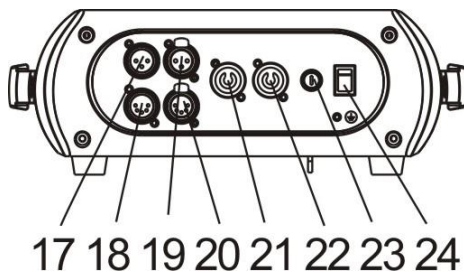
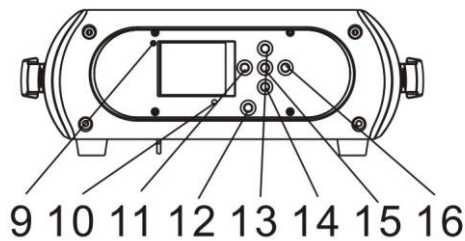
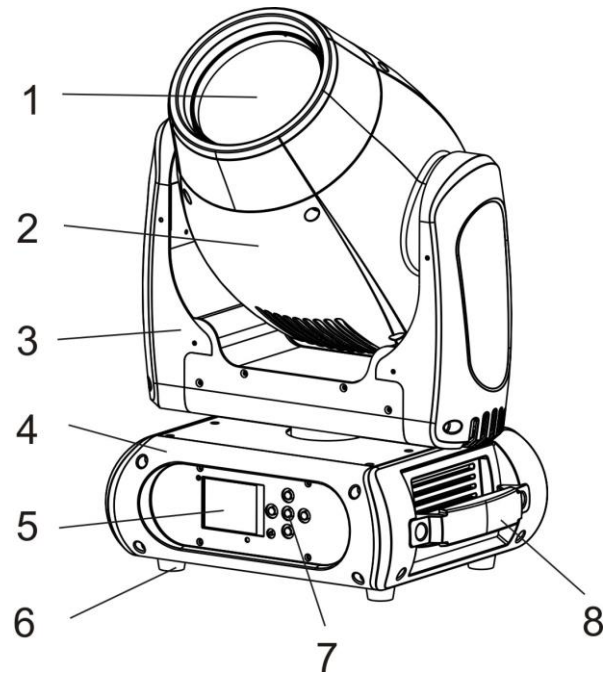
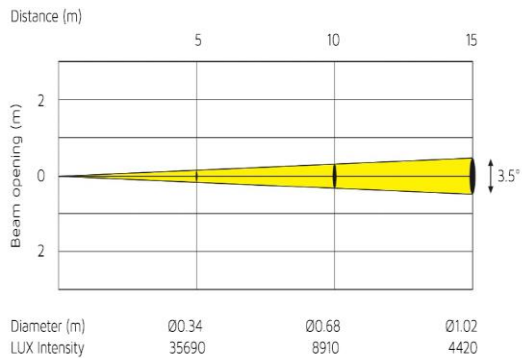
Product Installation

This device can be mounted in many orientations provided each individual device is secured by the use of correct mounting bracket.

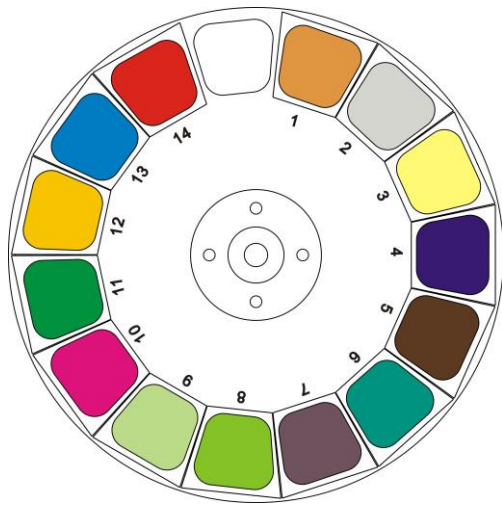
Use a safety chain when mounting this device overhead.






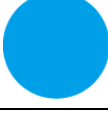
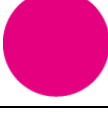


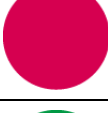

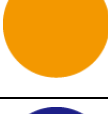
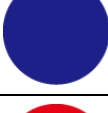
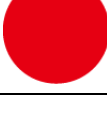


Product appearance, LUX chart, Dimensions



Colour wheel



Open	
	Tan
	CTB
	Yellow
	Shallow purple
	Brown
	Blue green
	Purple red
	Grass green
	UV
	Magenta
	Green
	Orange
	Blue
	Red

Gobo wheel



Menu operation

Description of icons in the menu

CONNECT	LIGHT	INFORMATION	SET	PROGRAM
				

Menu

Default setting shadowed. Mark with ① can be basic reloaded, ② be program reloaded, ③ can be private reloaded.

CONNECT	DMX Address①	XXX		DMX address setting
	Wireless①			Wireless Enabled
LIGHT	Max Temperature①	80~139°C, 80°C (176~282°F, 176°F)		Lamp will switch off when temperature continuously over max temperature for 5 minutes
	Lamp Adjust①			Adjust value of each channels
INFORMATION	Time Info.	Current XXXX(Hours) Fixture Life XXXX(Hours)		Fixture boot time Fixture total run time
	Temperature	Near Lamp Temp (depends on fixture)		Temperature Sensors
	Fans Speed	Near Lamp Fan (depends on fixture)		Fan speed Sensors
	Channel Value			Display value of channel
	Error Message			Error channels
	Fixture Model	M1S150W		Display brand and model
	Software Ver	1U01 V1.0.00		Version of each IC
SET	Reset	All Pan&Tilt Colors Gobos Others		Reset all Reset Pan&Tilt Reset Colors Reset Gobos Reset Others
	Movement	Pan Reverse① Tilt Reverse① Pan Degree① Encoders① Pan/Tilt Mode①	ON/OFF ON/OFF 630°/540° ON/OFF Stand/Smooth	Pan Reverse Tilt Reverse Choose Pan Degree Encoder wheel on/off Choose pan/tilt mode
	UI Set	Mic Sens. ③ No Signal① Temperature. C/F① Fans Mode① Hibernation① Backlight① Flip Display① Display Bright③	0~99%, 60% Close/Hold/Auto/Music Fahrenheit/Celsius Auto / High Speed OFF, 01M~99M, 15M 02~60m 02m ON/OFF 00~31 10	Sensitivity of Mic Mode when no signal Temperature at °C/°F Fans mode Sleeping mode Show backlight time Display 180°reverse Display Brightness

		Brand Show① Key Lock① Language①	ON/OFF ON/OFF En/简/繁/Fr/Sp		Show brand or not Key lock on/off Language Select
	Users	User Mode①	Standard Extended Basic-8bit Basic-16bit User		Standard mode Extended mode Basic mode-8bit Basic mode-16bit User program mode
		Edit User③	Max Channel = XX PAN = CH01 :		Edit users mode
	Calibration③	-Password- Color :	=XXX =XXX :		Password: 050 Calibrate channel value
	Fixture ID③	Name -Password- PID Code			Name Password: 050 Set PID of RDM
	Wireless Set①	DMX On Cable Reset Connect	ON/OFF ON/OFF		DMX Send Out Reset Connect
	Reload Default	Basic Reload(①) Program Reload(②) ---Password--- Private Reload(③) All Reload	ON/OFF ON/OFF XXX ON/OFF ON/OFF		Basic Reload Program Reload Password: 050 Private Reload All Reload
PROGRAM	Play①	DMX Receive Slave Receive Sequence Music	Slave Receive 1,2,3 Master / Alone Master / Alone		DMX Receive Choose slave position Run Sequence Music mode
	Select Chase②	Chase Part 1 Chase Part 2 Chase Part 3	Chase 1 ~ 8 Chase 1 Chase 1 ~ 8 Chase 2 Chase 1 ~ 8 Chase 3		Select and run auto program
	Edit Chase②	Chase 1 : : Chase 8	Chase Test Step 01 : Step 64	=SCxxx : =SCxxx	Test Beginning scene : Ending scene
	Edit Scenes②	Edit Scene 001 ~ Edit Scene 250	Pan,Tilt,..... Fade Time-- Secne Time-- DMX Input	=xxx =xxx =xxx	Input manual scene Modify manually fading time Modify manually scene time Input scene from exterior controller
	Scenes Record	ScXX=>ScXX			Auto Input scenes

DMX Chart

Channel				name	function	Min DMX	Max DMX
St	Ex	Ba1	Ba2				
1	1	1	1	Pan	Pan Coarse	0	255
	2		2	Pan fine	Pan Fine	0	255
2	3	2	3	Tilt	Tilt Coarse	0	255
	4		4	Tilt fine	Tilt Fine	0	255
3	5	3	5	Movement Speed	fastest to Slowest	0	255
	6			Movement Function	Normal	0	15
					Movement With Blackout	16	31
					TBD	32	255
4	7			Shutter Function	Normal Shutter Functions	0	15
					Pulse-effect Forward	16	31
					Pulse-effect Reverse	32	47
					Random Strobe	48	63
					TBD	64	255
5	8			Shutter	Normal Shutter Functions		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Forward		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Pulse-effect Reverse		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
					Random Strobe		
					Close	0	31
					Strobe Rate (slow to fast)	32	223
					Open	224	255
		4	6	Shutter	Shutter closed	0	31
					No function (shutter open)	32	63
					Strobe effect slow to fast	64	95
					No function (shutter open)	96	127
					Pulse-effect in sequences	128	159
					No function (shutter open)	160	191
					Random strobe effect slow to fast	192	223
					No function (shutter open)	224	255
6	9	5	7	Dimmer	Dimmer(Close to Open)	0	255

7	10			Color Function	Indexed	0	15
					Indexed With Blackout	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Color Bounce	80	111
					TBD	112	255
8	11			Color	Indexed & Indexed With Blackout		
					Position 1 (Open)	0	16
					Position 2 ~ Position 15	17	255
					Forward Spin Stop to fastest	0	255
					Reverse Spin Stop to fastest	0	255
					Continuous Positioning from 0-360 degrees	0	255
					Color Bounce		
					Position 1 (Open)	0	8
					Position 2 ~ Position 30	9	255
		6	8	Color	Indexed		
					Position 1 (Open)	0	2
					Position 2 ~ Position 15	3	44
					Indexed With Blackout		
					Position 1 (Open)	45	47
					Position 2 ~ Position 15	48	89
					Indexed With Bounce		
					Position 1	90	98
					Position 2 ~ Position 15	99	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
9	12			Gobo Function	Indexed	0	15
					Indexed With BackOut	16	31
					Forward Spin	32	47
					Reverse Spin	48	63
					Continuous	64	79
					Shake	80	95
					TBD	96	255
10	13			Gobo	Indexed & Indexed With Blackout & Shake		
					Position 1 (Open)	0	13
					Position 2 ~ Position 18	14	255
					Forward Wheel Spin		
					Stop to fastest	0	255
					Reverse Wheel Spin		
					Stop to fastest	0	255
					Continuous		
					Positioning from 0-360 degrees	0	255

		7	9	Gobo	Indexed		
					Position 1 (Open)	0	1
					Position 2 ~ Position 18	2	35
					Indexed With Blackout		
					Position 1 (Open)	36	37
					Position 2 ~ Position 18	38	71
					Indexed With Shake		
					Position 2	72	80
					Position 3 ~ Position 18	81	223
					Forward Wheel Spin		
					Stop to fastest	224	239
					Reverse Wheel Spin		
					Stop to fastest	240	255
11	14	8	10	Prism	Indexed & Indexed With Blackout		
					Position 1 (Open)	0	63
					Position 2	64	127
					Position 3	128	191
					Position 4	192	255
12	15	9	11	Prism Rot	Continuous Positioning from 0-360 degrees	0	191
					Forward Spin Stop to fastest	192	223
					Reverse Spin Stop to fastest	224	255
13	16	10	12	Focus	Continuous Focus In to Focus Out	0	255
14	17	11	13	Control	Normal	0	7
					Reset All	8	15
					Pan&Tilt Reset	16	23
					Color Reset	24	31
					Gobo Reset	32	39
					TBD	40	47
					Other Reset	48	55
					Display Off	56	63
					Display On	64	71
					TBD	72	79
					TBD	80	87
					Hibernation	88	95
					TBD	96	255

- The device is controlled by universal DMX 512 protocol, DMX address is the start channel used to receive instructions from the external controller. For independent control, each fixture must be assigned its unique address control channels. For example, this device has four channel modes: 14/17/11/13, if we set the mode at standard 14 channels mode, and there are several models need to be independently controlled, we just simply address first fixture at 1, and second fixture at 15, third one at 29, etc.
- If the devices have the same address, they will behave synchronically.
- Display is flashing when no DMX signal is received.

More functions

- RDM. RDM stands for “Remote Device Management”, with this function, users can realize remote control of the device, such as remotely changing DMX address, reverse pan/tilt setting, check a lot of useful information such as temperature, power consumption, fan speed. Etc. Every single device has a unique RDM code programmed at manufacture to distinguish from each other. It is not recommended for users to change this code.
- Software upgrade function via DMX cable. If there is any new firmware for this device, it can be upgraded simply via a software upgrade box, no need to change any mechanical parts. The upgrade box is not included in the package, if need any further assistance please just contact your authorized dealer.
- Hibernation. The device will enter sleeping mode if activated after a period of disconnecting DMX signal to save the power consumption, and will return immediately as soon as the DMX signal is sent again.
- Display back-up communication IC. There is a back-up communication IC installed in the display PCB, so users could replace at once if the original one is broken.
- Display flip. By press up and down button for more than 3 seconds, the display will flip automatically, this function is useful to read menu conveniently when device is hanged.

Technical Specifications

- Input Voltages: 100V~240V AC, 50/60Hz
- Power Consumption: 220W
- Light source: advanced 150W white LED module
- Power Connection: Neutrik® Powercon input and output connection
- LED life: 60,000 hours
- Lux: 10500 lumen, 35690 lux on @5M
- Beam angle: 3.5°
- PWM: 1,200Hz
- Colors: 1 color wheel with 14 colors + open
- Gobos: 1pc 17 + open fixed gobo wheel, inside Ø13mm.
- Effect: 3 facets, 8 facets prism, frost
- Dimmer: 0-100% dimmer
- Strobe: 0.5 - 26 Hz
- Focus: linearly focusing controlled by DMX
- Head movement: Pan: 630°(4.0 sec) or 540°(3.58 sec), Tilt 265°(2.8 sec). 16-bit resolution, auto repositioning
- Control: DMX512, 3-pin XLR interfaces, 14/17/11/13 channel mode
- Other function: wireless DMX is available
- 2.4 inch colour LCD display with back-up power.
- Thermostat Controlled, variable speed fan
- RDM and software upgrade via DMX.
- Net weight: 11.5Kg
- Overall Size: 343x302x487mm
- Rigging: 2pcs omega brackets with 1/4 – turn quick locks
- Road case available